



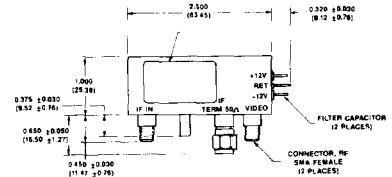
Low Voltage Wideband Logarithmic Amplifier

110-210 MHz

LV160

- ± 5 VDC Operation
- Low Power Dissipation; 0.5 Watts
- Wideband Operation
- Hermetically Sealed

C-36



Dimensions in () are in mm.

See Appendix for complete physical dimensions.

Guaranteed Specifications*

(From -30°C to $+71^{\circ}\text{C}$ Case Temp)

| | |
|--|-----------------------|
| Frequency Range | 110 - 210 MHz |
| Input VSWR | $\leq 1.5:1$ |
| Input Dynamic Range | -70 dBm to $+5$ dBm |
| Log Output | |
| Linearity | |
| (@ room temp) | ± 1.5 dB Max |
| (-30°C to $+71^{\circ}\text{C}$) | ± 2.25 dB Max |
| Slope (@ room temp) | 15 mV/dB Nom |
| Slope Variation vs. Temperature | |
| (-30°C to $+71^{\circ}\text{C}$) | 5% Max |
| Voltage Range (Direct Coupled) | 0 to 1.15V Nom |
| Rise Time (10-90%) | 20 nsec Max |
| Limited IF Output | 0 dBm Nom |
| DC Power | |
| Quiescent | $+5$ VDC @ 30 mA Typ |
| | -5 VDC @ 80 mA Typ |
| Max. Signal | $+5$ VDC @ 45 mA Typ |
| | -5 VDC @ 105 mA Typ |

Operating Characteristics

| | |
|----------------------|-----------------|
| IF Impedance | 50 Ohms Nominal |
| Video Load Impedance | 93 Ohms Nominal |

Environmental

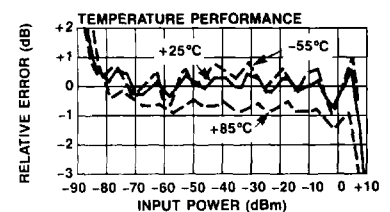
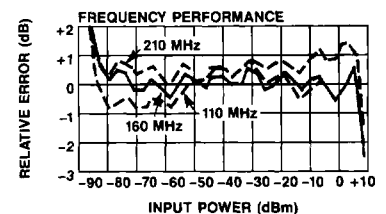
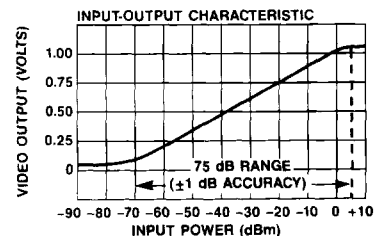
See Appendix for MIL-STD-883 screening option.

*All specifications apply when operated at ± 5 VDC and with a 50 ohm IF source and load impedance and 93 ohm video load impedance

Ordering Information

| Model No. | Package |
|-----------|---------------|
| LV160 | Connectorized |

Typical Performance



Specifications Subject to Change Without Notice.

M/A-COM Inc. ■ 1011 Pawtucket Boulevard, Lowell, MA 01853 USA

■ Telephone: 800-366-2266